

Claims

1. Wing of aircraft with slats and segmented one-slotted sliding flaps with driving gear, characterized in that each flap comprises two movable segments: fore box (2) and main flap (3) connected by spring actuators (4) to each other and moving on rolls (5) along guides (6) of radius (R) bigger than a half chord (c) of wing airfoil section, which the segments are located in chamber (7) composing a sector of cylinder wall with thickness limited by both upper flow-surface of wing box (8) and closing panel (9) situated at the bottom of this box; at the same time fore box (2) is situated in each of its position at least partially within the chamber, whereas the main flap is situated in its various positions at least partially within the chamber or fully beyond it.
2. Wing of aircraft as claimed in Claim 1. characterized in that driving gear of each flap is located along wing span and completely hidden in transversal outline of the wing.